

PHGN 300 Crystal Radio (in 45 minutes)

Ground Wire

Antenna
Need double
length



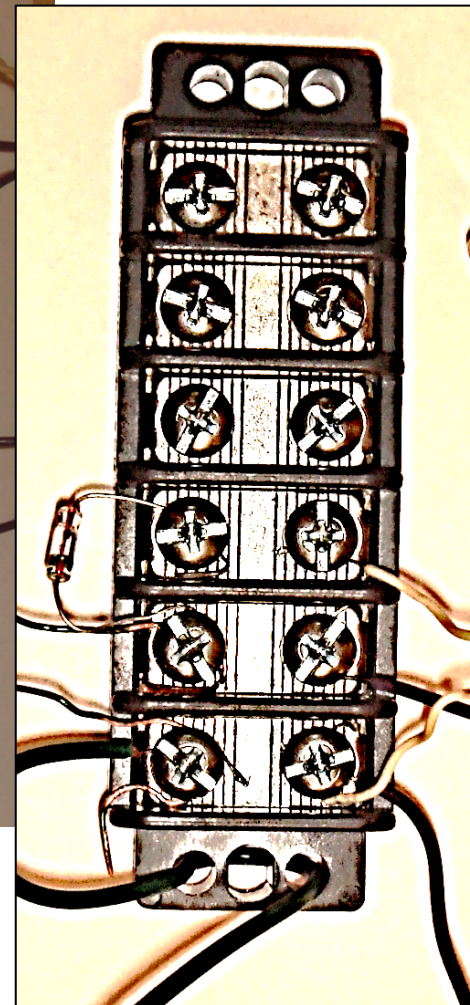
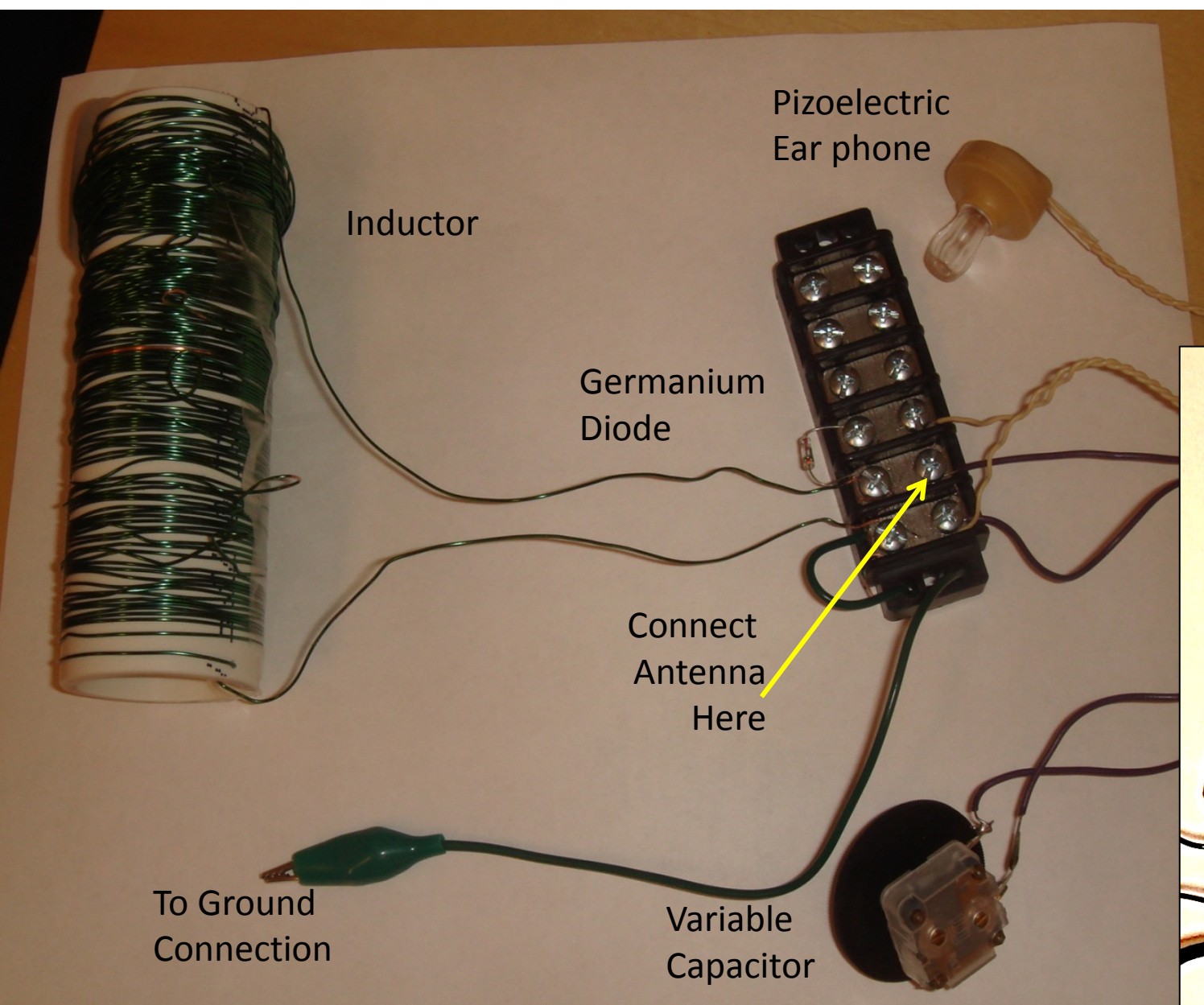
Please put away like
this when done!

Variable
capacitor

GaAs Diode

Ear piece





Crystal Radio in 45 minutes.

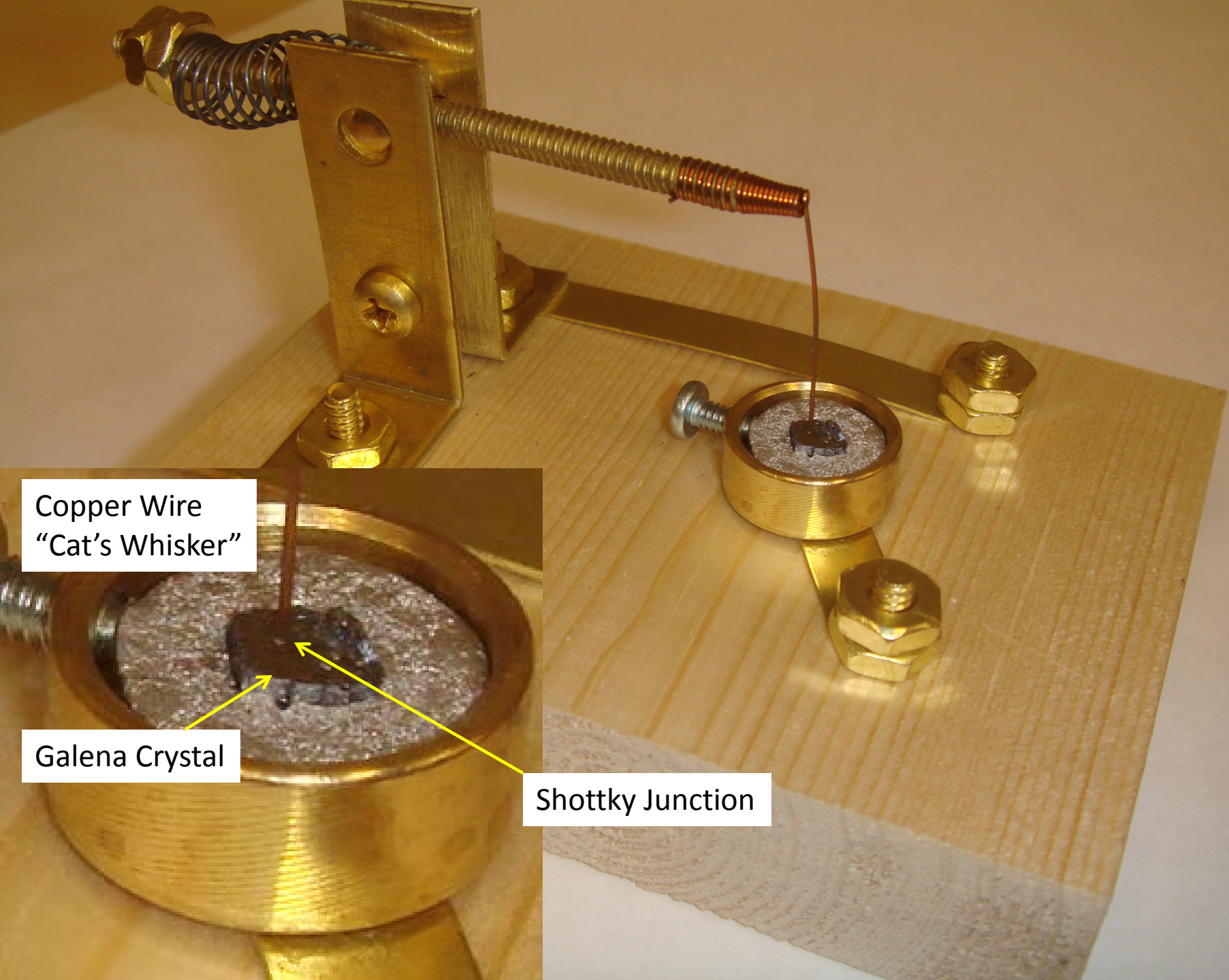
Work in groups of 4.

2 people should assemble the radio and connect the ground wire.

2 people should string the antenna

If you get your radio to work using the GeAs diode,
Try the Gallium + Cat Whisker

Return everything the way you found it before leaving



Copper Wire
"Cat's Whisker"

Galena Crystal

Shottky Junction

The radios **must** have a good ground connection and a long antenna. Long means 100'-200' of antenna wire outside. 200' is better

Two possible routes are shown here. Use one.

Attach to tree branches you can reach.

When crossing a sidewalk, make it high so pedestrians don't have to duck (they won't).

You will take antenna down when class ends.

